Fig.1
(Related Art)

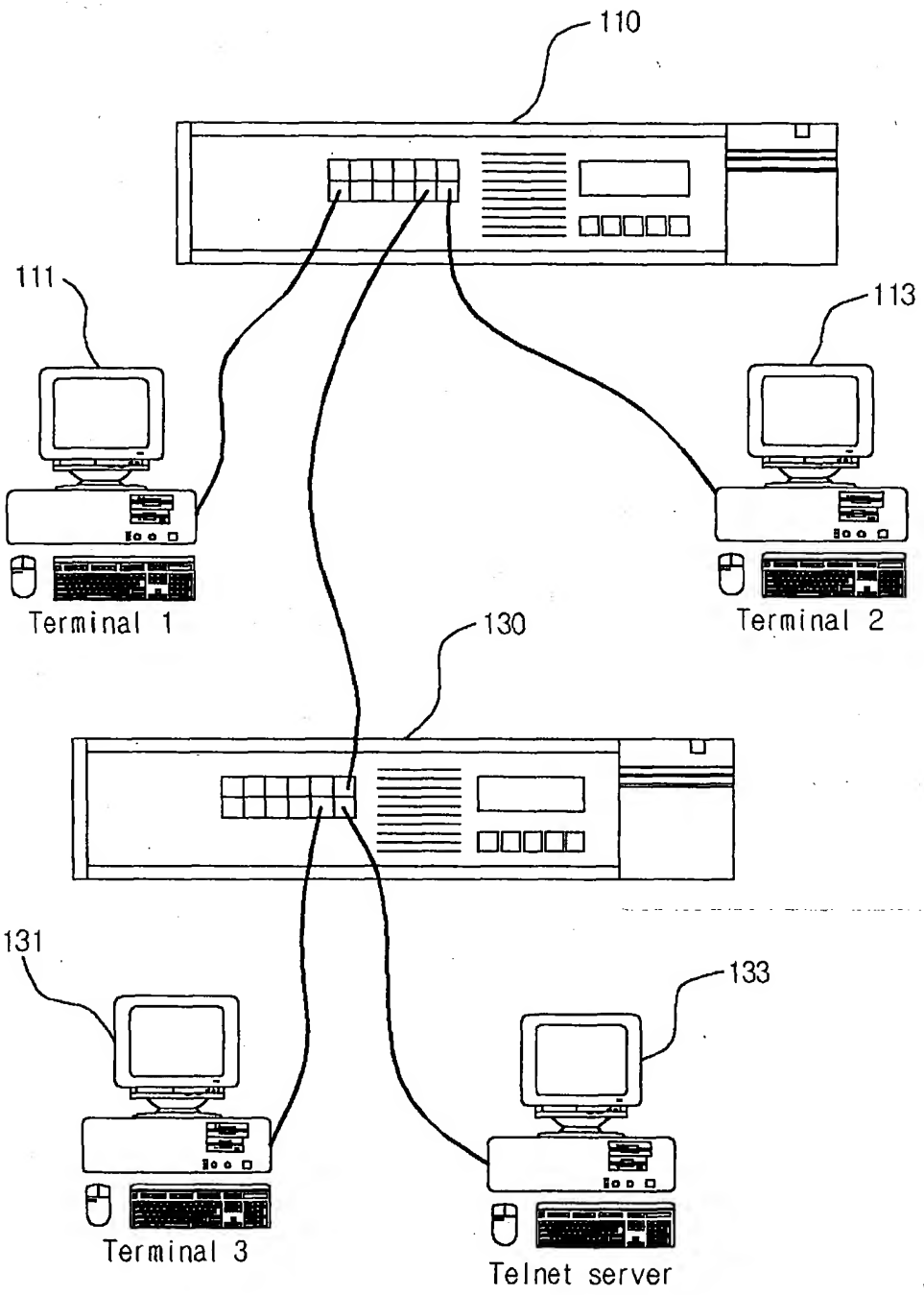


Fig.2
(Related Art)

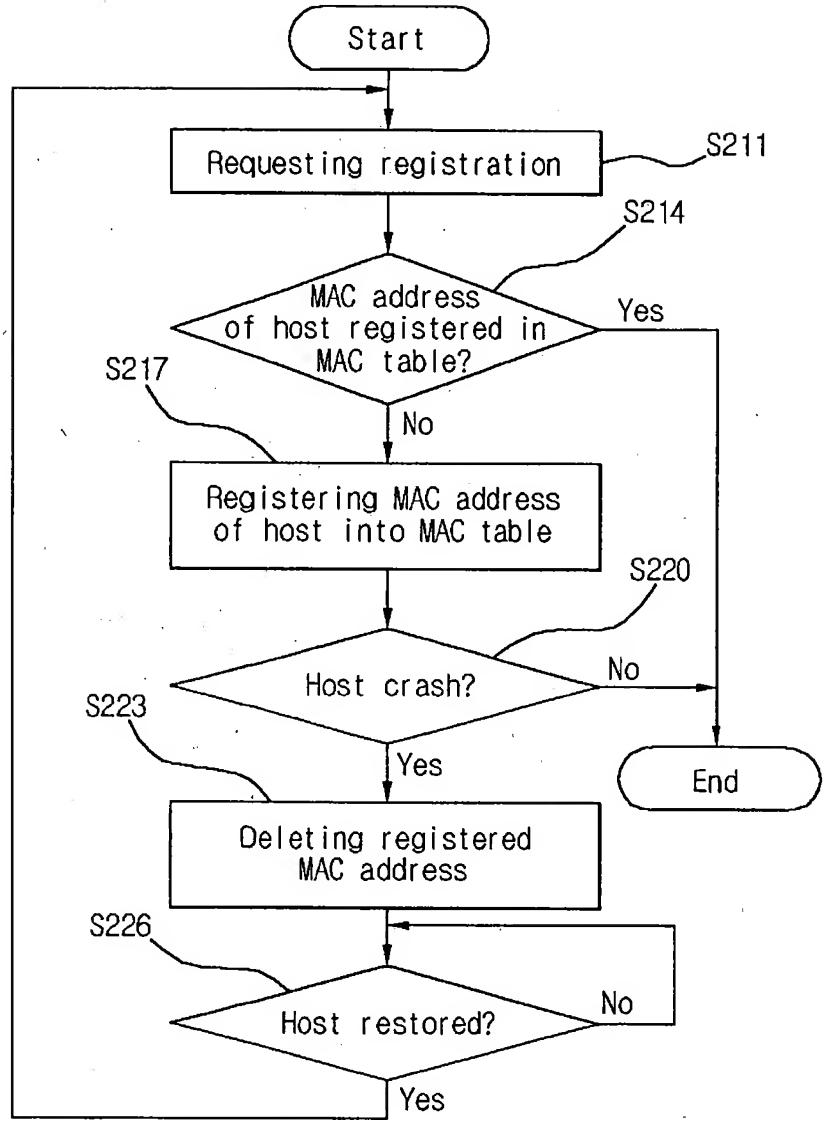


Fig.3
(Related Art)

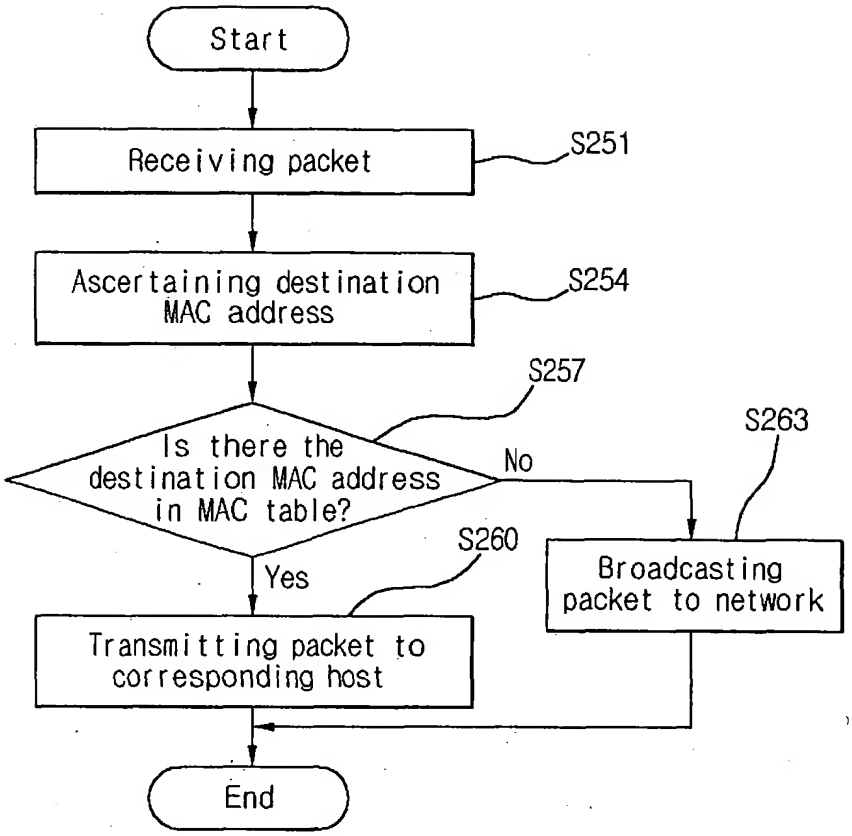


Fig.4

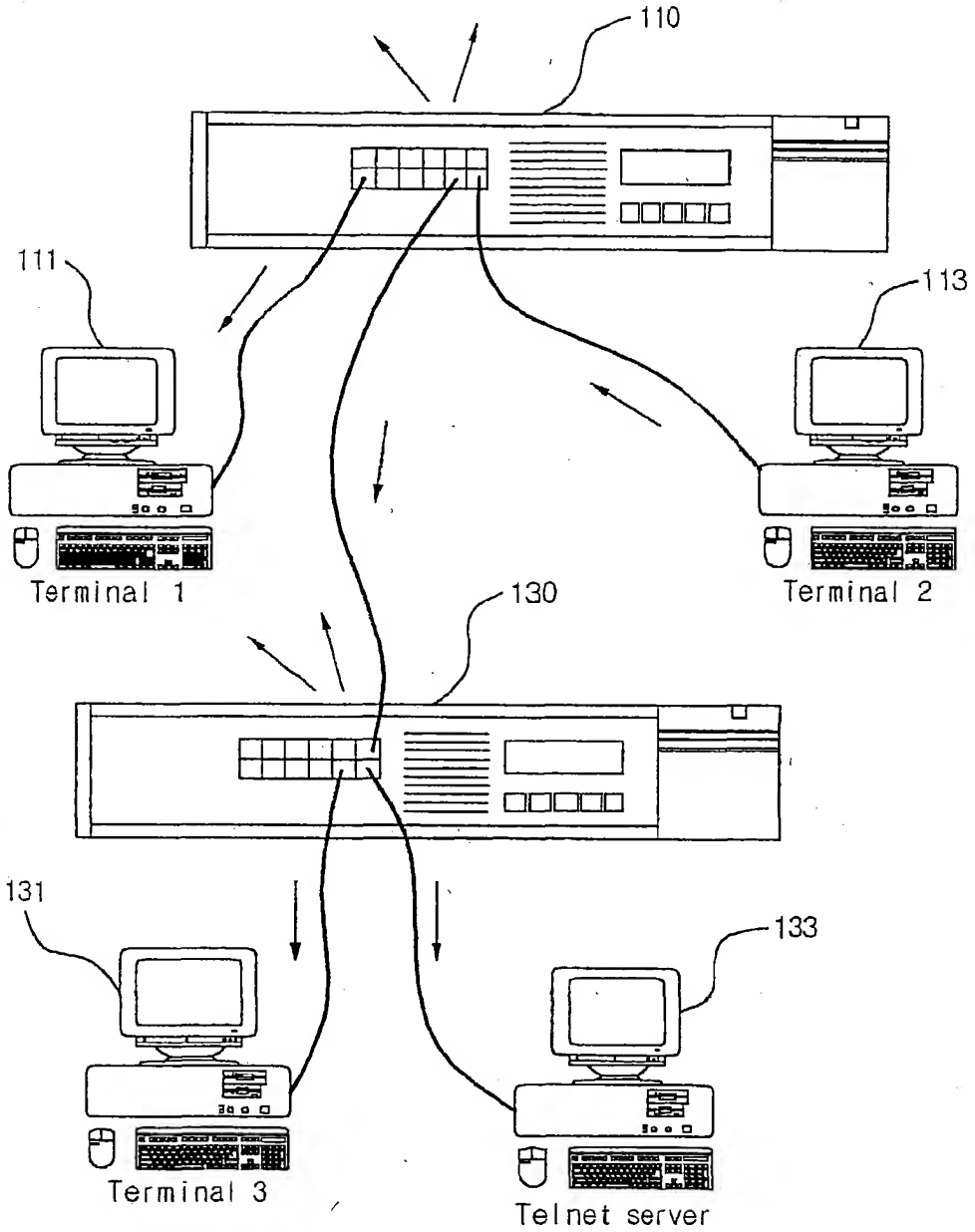

110
111
113
Terminal 1
Terminal 2
130
131
133
Terminal 3
Telnet server

Fig.5

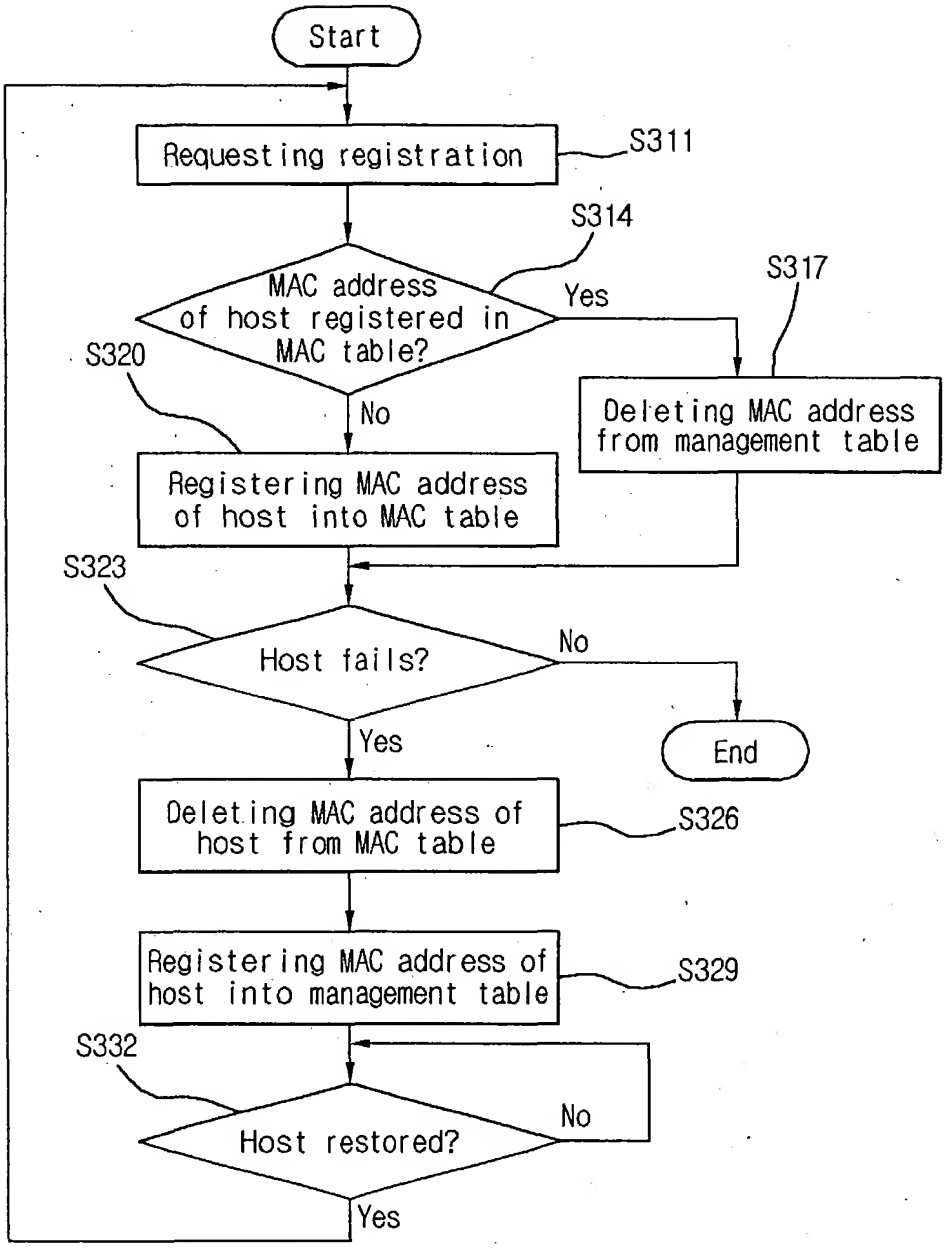

Start
Requesting registration
S311
S314
MAC address of host registered in MAC table?
Yes
S317
Deleting MAC address from management table
S320
No
Registering MAC address of host into MAC table
S323
Host fails?
No
End
Yes
Deleting MAC address of host from MAC table
S326
Registering MAC address of host into management table
S329
S332
Host restored?
No
Yes

Fig.6

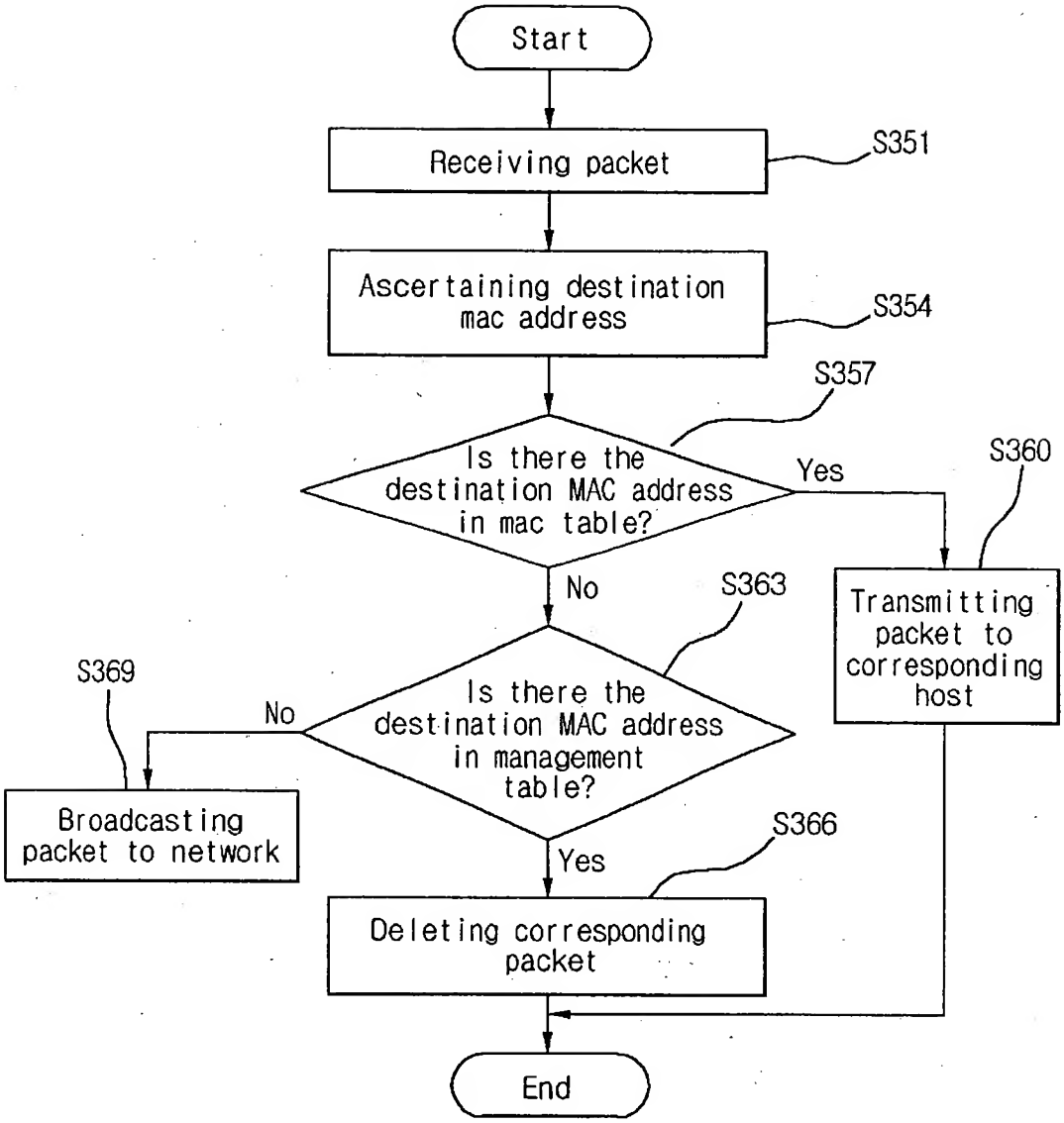
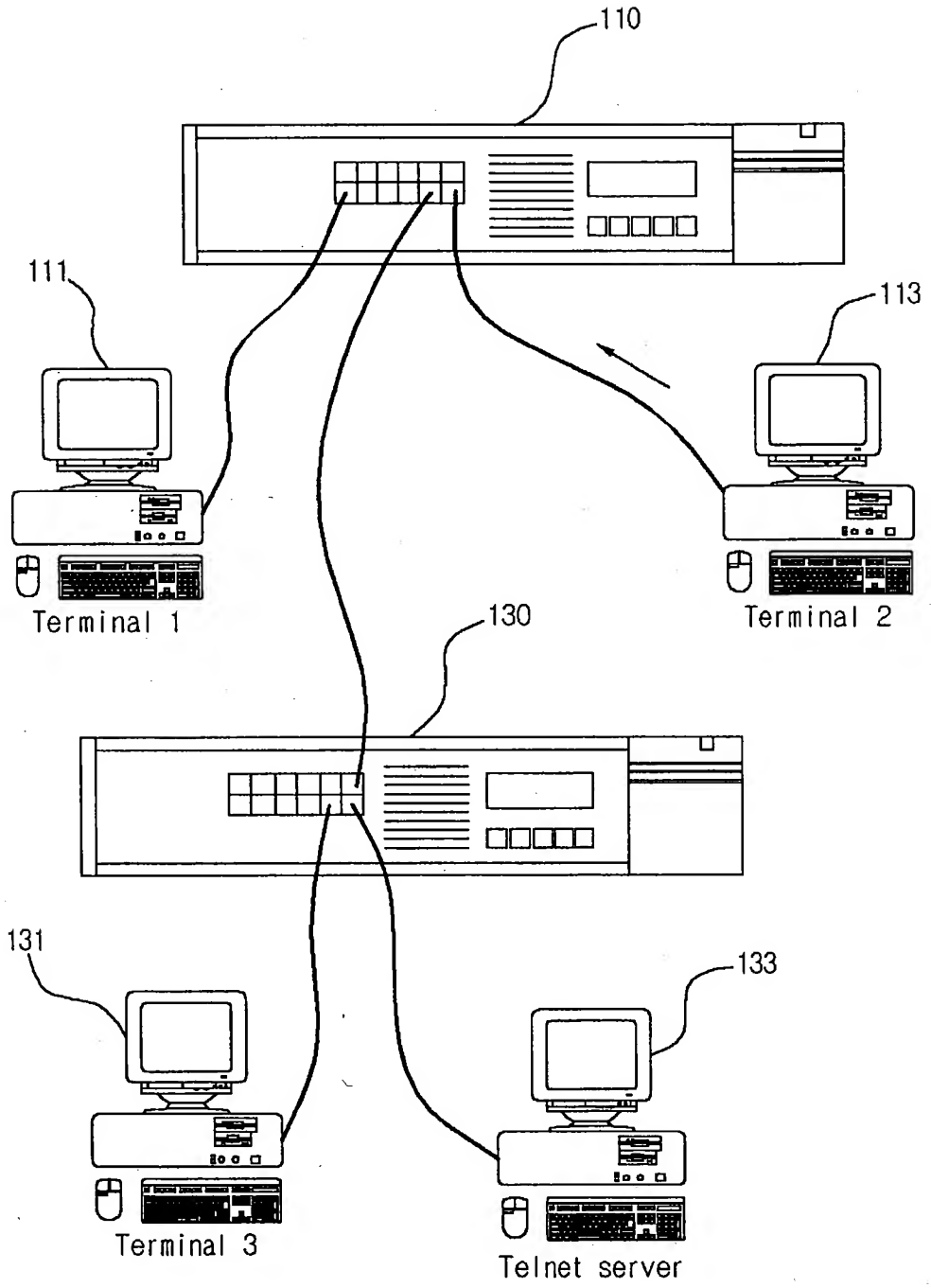

Start
Receiving packet
S351
Ascertaining destination mac address
S354
S357
Is there the destination MAC address in mac table?
Yes
S360
Transmitting packet to corresponding host
No
S363
Is there the destination MAC address in management table?
S369
No
Broadcasting packet to network
Yes
S366
Deleting corresponding packet
End

Fig.7


110
111
113
Terminal 1
Terminal 2
130
131
133
Terminal 3
Telnet server